| Index of Claims |
|-----------------|
|                 |
|                 |

| Application No.    | Applicant(s) |   |
|--------------------|--------------|---|
| 10/780,504         | JONES ET AL. | _ |
| Examiner           | Art Unit     |   |
| R. Alexander Smith | 2859         |   |

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

R. Alexander Smith

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla  | im             |                |              |  |          | ate      |  |  |  |  |
|--|----------------|----------------|--------------|--|----------|----------|--|--|--|--|
| Cic  | 23111          |                |              |  | ┪        | Jak      |  |  | _  |  |
| Final  | Original       | 1/10/05        |              |  |          |          |  |  |  |  |
|  | 1              | X              |              |  |          |          |  |  |  |  |
|  | 2              | Х              |              |  |          |          |  |  |  |  |
|  | 3              | X              |              |  |          |          |  |  |  |  |
|  | 4              | Х              |              |  |          |          |  |  |  |  |
|  | 5              | X              |              |  |          |          |  |  |  |  |
|  | 6              | X              |              |  |          |          |  |  |  |  |
|  | 7              | X              |              |  |          |          |  |  |  |  |
|  | 8              | X              |              |  |          |          |  |  |  |  |
|  | 9              | x              |              |  |          |          |  |  |  |  |
|  | 10             | Х              |              |  |          |          |  |  |  |  |
|  | 11             | Х              |              |  |          |          |  |  |  |  |
|  | 12             | Х              |              |  |          |          |  |  |  |  |
|  | 12<br>13       | X              |              |  |          |          |  |  |  |  |
|  | 14             | Х              |              |  |          |          |  |  |  |  |
|  | 15             | Х              |              |  |          |          |  |  |  |  |
|  | 15<br>16<br>17 | Х              |              |  |          |          |  |  |  |  |
| _  | 17             | Х              |              |  |          |          |  |  |  |  |
|  | 18             | Х              |              |  |          |          |  |  |  |  |
|  | 18<br>19       | Х              |              |  |          |          |  |  |  | _  |
|  | 20             | X              |              |  |          |          |  |  |  |  |
|  | 21             | Х              |              |  |          |          | Т  |  |  |  |
|  | 21<br>22       | Х              |              |  |          |          |  |  | _  |  |
|  | 23             | Х              |              |  |          | _        | T  |  |  |  |
|  | 24             | Х              |              |  |          | T        | $\vdash$   |  |  |  |
| $\vdash$   | 24<br>25       | X              |              |  |          | $\vdash$ | Г  | Г  | Т  | $\Box$   |
|  | 26             |                |              | _  |          | 一        | <del>                                     </del> | $\vdash$   |  | _  |
|  | 26<br>27       | X              |              |  |          | $\vdash$ | Т  |  |  |  |
| $\vdash$   | 28             | Х              | _            |  |          | Г        | Г  |  | $\vdash$   | $\vdash$   |
|  | 29             | X              |              | _  |          | $\vdash$ |  |  |  | _  |
|  | 30             | X              |              | -  |          |          | -  | _  | $\vdash$   | <u> </u>   |
| <del>                                     </del> | 31             | X              |              |  |          | 1        | H  | -  |  | _  |
| <del>                                     </del> | 32             | X              | -            | i -  | ┢        | -        | $\vdash$   |  | $\vdash$   | <del>                                     </del> |
| <del></del>                                      | 33             | x              | -            | $\vdash$   | -        | -        | $\vdash$   |  | -  | -  |
| ├─   | 34             | X              |              | -  | -        | H        | $\vdash$   | $\vdash$   | _  | -  |
| -  | 35             | X              |              | ┢  | -        | H        | ╁  | -  | $\vdash$   | _  |
| _  | 36             | x              |              | ├─   | ├─       | $\vdash$ | ╁  | ├─   | ┢  | $\vdash$   |
|  | 37             | x              | -            | ┢  | ┝        | ┢        | ⊢  | $\vdash$   | $\vdash$   | -  |
| -  | 38             | x              | ⊢            | -  | -        | ╁        | ╁╌   | -  | ┢  | $\vdash$   |
|  | 39             | Î              | <del> </del> | -  | ┝        | 1        | ┢  | $\vdash$   | $\vdash$   | 1  |
| <u> </u>   | 40             | 1 1/           |              | $\vdash$   | $\vdash$ | $\vdash$ | <del> </del>                                     | $\vdash$   | <del>                                     </del> | $\vdash$   |
| <del> </del>                                     | 41             | X              | -            | $\vdash$   | -        | $\vdash$ | <del>  -</del>                                   | <del>                                     </del> | $\vdash$   | $\vdash$   |
| <del>                                     </del> | 42             | x              | -            | <del>                                     </del> | $\vdash$ | ├-       | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   |
| <u> </u>   | 43             | x              | $\vdash$     | $\vdash$   | ┢        | ╁        | +  | $\vdash$   | 1  | $\vdash$   |
|  | 44             | Î              | $\vdash$     | $\vdash$   | $\vdash$ | 1        | $\vdash$   | $\vdash$   | $\vdash$   | +-   |
|  | 45             | Î              | -            | -  | -        | ╁        | ₩  | ╁  | $\vdash$   | ╁  |
| -  | 46             | Î              | $\vdash$     | $\vdash$   | -        | +-       | ╁  | $\vdash$   | <del> </del>                                     | 1  |
| <del>                                     </del> | 47             | <del> </del>   | -            |  | $\vdash$ | $\vdash$ | +  | $\vdash$   | <del> </del>                                     | +-   |
| $\vdash$   | 48             | ÷              | <del> </del> | ┼  | -        | +        | $\vdash$   | +-   | ├  | $\vdash$   |
|  | 49             | ÷              | ├-           | ┼-   | $\vdash$ | +-       | 1  | 1  | $\vdash$   | +-   |
| <b>—</b>   | 50             | <del>\</del> ≎ | -            | $\vdash$   | $\vdash$ | $\vdash$ | +-   | -  | $\vdash$   | ⊢  |

| Cla         | Date   |          |              |              |          |              |          |          |          |              |
|-------------|--|----------|--------------|--------------|----------|--------------|----------|----------|----------|--------------|
|             |  |          |              |              |          |              |          | $\neg$   |          | $\neg$       |
| <del></del> | Original   | 9        |              |              |          |              |          |          |          |              |
| Final       | igi  | 10/      |              |              |          |              |          | 1        |          |              |
| ш           | ō  | 1        |              |              |          |              |          | - 1      |          |              |
|             |  |          |              |              |          | ш            | _        | _        | _        | _            |
|             | 51   | Х        |              |              | <u> </u> |              |          | _        | _        | _            |
|             | 52   |          |              |              |          |              | _        | _        | _        | _            |
|             | 52<br>53<br>54   |          |              | _            |          | Ш            |          | _        |          | $\dashv$     |
|             | 54   |          |              | _            |          |              | _        | _        | _        |              |
|             | 55<br>56   |          |              |              |          |              | $\Box$   | _        | _        |              |
|             | 56   |          |              | $oxed{oxed}$ | L        |              |          |          |          |              |
|             | 57   |          | _            |              |          |              |          |          |          |              |
|             | 58<br>59   |          |              |              | _        |              |          |          |          |              |
|             | 59   |          |              |              |          |              |          | -        |          |              |
|             | 60   |          |              |              |          |              |          |          |          |              |
|             | 61<br>62   |          |              | Γ            |          |              |          |          |          |              |
|             | 62   |          |              |              |          |              |          |          |          |              |
|             | 63   |          |              |              |          |              |          |          |          |              |
|             | 63<br>64<br>65   |          |              |              | Г        |              | П        |          |          |              |
|             | 65   | $\Box$   |              |              |          | П            |          |          |          |              |
|             | 66<br>67<br>68   |          |              | Π            |          |              | П        |          |          |              |
|             | 67   |          |              |              |          | Г            | П        |          |          |              |
|             | 68   | Π        |              | Ī            |          |              |          |          |          |              |
|             | 69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78 | Г        |              |              |          | Π            |          |          |          |              |
|             | 70   |          |              |              |          |              |          |          |          |              |
|             | 71   | Γ        |              |              |          |              |          |          |          |              |
|             | 72   | Π        | Γ            | Г            |          |              |          |          |          |              |
|             | 73   | Г        |              |              |          |              |          |          |          |              |
|             | 74   | L        |              |              |          |              |          |          |          |              |
|             | 75   | L        | L            |              | _        | _            |          |          |          |              |
|             | 76   | L        |              | L            | <u></u>  | <u>  .</u>   |          |          |          |              |
|             | 77   | L        | _            | ļ            | <u> </u> | _            |          |          |          | _            |
| <u></u>     | 78   | <u> </u> | ╽            | _            | L        | _            |          |          |          | _            |
|             | 79   | <u> </u> | <u>.</u>     |              | _        | <u> </u>     |          |          |          | _            |
|             | 80   |          |              | ┖            | L        | <u></u>      |          |          |          | <u> </u>     |
|             | 81   |          |              | L            | L        | _            |          |          | _        |              |
|             | 82<br>83   |          |              | L            | _        | <u> </u>     |          |          | _        |              |
|             | 83   |          | L            | ┖            | L        | _            |          |          | L        | 匚            |
| <u></u>     | 84   | <u> </u> |              | 1_           | $\perp$  | <u> </u>     | <u>L</u> | <u> </u> | <u> </u> | <u> </u>     |
|             | 85   | _        |              | _            | oxdot    | <u> </u>     | <u> </u> | <u> </u> |          | L_           |
|             | 86   | <u> </u> | L            | 1_           | $\vdash$ | ┞            | ∟        | _        | ldash    | _            |
| <u></u>     | 87   | <u> </u> | <u></u>      | $\perp$      | _        | ┞            | <u> </u> | <u> </u> |          | _            |
| <u> </u>    | 88<br>89   | <u> </u> | $\perp$      | 1_           | <b>L</b> | ↓_           | <u> </u> | <b> </b> | <u> </u> | ļ            |
| <u></u>     | 89   | _        | $oxed{oxed}$ | 1_           | <u> </u> | _            | _        | <u> </u> | ļ        | <u> </u>     |
|             | 90   | 丄        | oxdapsilon   | 1            | <u> </u> | ↓_           | <b>!</b> | ļ        |          | <u> </u>     |
| <u></u>     | 91   | $\vdash$ | $\vdash$     | ↓_           | ┞        | $\vdash$     | $\vdash$ | <u> </u> |          | Ь            |
| <u> </u>    | 92   | ┞        | $\vdash$     | ╄.           | ↓_       | ↓_           |          | <u> </u> | <u> </u> | <b> </b>     |
| L           | 93   | ↓_       | <b> </b> _   | 1            | $\vdash$ | 1            | ₩        | <u> </u> | <u> </u> | ₩            |
|             | 94   | <b>↓</b> | <u> </u>     | 1_           | ↓_       | <del> </del> | ــ       | <u> </u> | <u> </u> | <del> </del> |
| <u> </u>    | 95   | ┞        | 1            | _            | 1        | 1            | ļ.,      | $\vdash$ | <u> </u> | <b>!</b>     |
|             | 96   | 1        | ↓_           | 1            | 1        | $\vdash$     | ــــ     | <u> </u> | <u> </u> | _            |
| <u></u>     | 97   | $\vdash$ | ┺            | $\perp$      | $\vdash$ | +            | 1        |          | <u> </u> | ऻ_           |
|             | 98   | <u> </u> |              | ↓_           | ╄        | +-           | ┞        | _        | -        | ــ           |
| L           | 99   | -        | 1            | ↓_           | ↓_       | ↓_           | ╀        | <u> </u> | ⊢-       | 1            |
| 1           | 100  | 1        | 1            | 1            | 1        | 1            | 1        | 1        | ı        | 1            |

| Cla          | aim                      | Date   |          |          |              |              |          |          |          |  |
|--------------|--------------------------|--|----------|----------|--------------|--------------|----------|----------|----------|--|
| Final        | Original                 |  |          |          |              |              |          |          |          |  |
|              | 101<br>102               |  |          |          |              |              |          |          |          |  |
|              | 102                      |  |          |          |              |              |          |          |          |  |
|              | 103                      |  |          |          |              |              |          |          |          |  |
|              | 104<br>105               |  |          |          |              |              |          |          |          |  |
|              | 105                      |  |          |          |              |              |          |          |          |  |
|              | 106                      |  |          |          |              |              |          |          |          |  |
|              | 107                      |  |          | Ш        |              |              |          |          | _        |  |
|              | 108                      | Ш  |          | _        |              |              |          |          |          | Ш  |
|              | 109                      |  | ╙        | _        |              | -            |          |          |          | $\vdash$   |
|              | 110                      |  | ┝        | -        | _            | -            | H        | _        | -        | $\vdash$   |
| <u> </u>     | 111                      | H  | $\vdash$ | $\vdash$ | _            | -            | Н        |          | $\vdash$ | Н  |
| <del> </del> | 112<br>113               | -  | $\vdash$ | $\vdash$ |              | <del>-</del> | $\vdash$ |          | H        | Н  |
| <u> </u>     | 114                      | $\vdash$   | $\vdash$ | -        | _            | $\vdash$     | Н        |          |          | H  |
|              | 115                      | -  | $\vdash$ | -        |              | -            |          | _        | $\vdash$ |  |
|              | 116                      | $\vdash$   |          |          | _            |              | _        |          |          |  |
|              | 117                      | $\vdash$   |          |          | _            |              |          |          |          |  |
|              | 118                      | Г  |          |          |              |              |          |          |          |  |
|              | 119                      |  |          |          |              |              |          |          |          |  |
|              | 120                      |  |          |          |              |              |          |          |          |  |
|              | 121                      |  |          |          |              |              |          | L        | L        |  |
|              | 122                      | _  | <u> </u> | L        | _            | _            |          |          |          |  |
|              | 123<br>124<br>125        |  | _        | _        | <u> </u>     |              |          | _        | _        | _  |
|              | 124                      | <u> </u>   |          | <u> </u> | <u> </u>     | <u> </u>     | _        | _        | <u> </u> | -  |
|              | 125                      | -  | -        | ⊢        | <del> </del> | -            | ⊢        | ├        | -        | <del>                                     </del> |
|              | 126<br>127<br>128<br>129 | -  | ├        | ┢        | ┝            | -            | -        | ┢┈       | ┝        | H  |
| -            | 128                      | -  | ┢        | -        | -            | -            |          | $\vdash$ | ┢        | $\vdash$   |
|              | 129                      | ╁╌   |          | $\vdash$ | -            | $\vdash$     | _        | _        | $\vdash$ | $\vdash$   |
|              | 130                      | <del>                                     </del> |          | 一        | <del> </del> | <u> </u>     | <u> </u> |          |          | $\vdash$   |
|              | 131                      | $t^-$  |          | 厂        | 1            | <u> </u>     | Г        |          | П        | Г  |
|              | 132                      | 1  | Π        |          |              |              |          |          |          |  |
|              | 133                      |  |          |          |              |              |          |          |          |  |
|              | 134                      |  |          |          | L            |              |          |          |          |  |
|              | 135                      |  | L        | <u> </u> | L            | 丄            | _        | <u> </u> | L        | <u> </u>   |
|              | 136                      | <u> </u>   | ļ.       | <u> </u> | <u> </u>     | ـــ          | $\vdash$ | _        | L        | <del> </del>                                     |
|              | 137                      | Ŀ  | ├_       |          | -            | $\vdash$     | ├        | _        | $\vdash$ | ├  |
| <u> </u>     | 138                      | -  | -        | 1-       | $\vdash$     | $\vdash$     | ├        | -        | -        | -  |
| <u> </u>     | 139                      | ╁  | -        | -        | -            | ┾            | $\vdash$ | -        | +        | $\vdash$   |
| <u> </u>     | 140<br>141               | $\vdash$   | ├        | $\vdash$ | $\vdash$     | 1            | $\vdash$ | -        | $\vdash$ | $\vdash$   |
| H            | 142                      | $\vdash$   | +-       | $\vdash$ | +            | +-           | $\vdash$ | -        | $\vdash$ | $\vdash$   |
| <u> </u>     | 143                      | $\vdash$   | T        | $\vdash$ | ┢            | t            | 一        | $\vdash$ | 1        | <del>                                     </del> |
| 1            | 144                      | †  | T        | 1        | T            | T            | T        | 1        | T        | $\vdash$   |
|              | 145                      |  | 1        | $\top$   | Τ            | T            | 1        | Т        | Γ        | T  |
|              | 146                      |  |          |          |              |              | Γ        |          |          |  |
|              | 147                      |  |          |          | Γ            |              |          |          |          | $\Box$   |
|              | 148                      |  |          |          |              |              |          |          |          |  |
|              | 149                      | $oxed{\Box}$                                     |          |          |              | Г            |          |          | Г        |  |
|              | 150                      |  |          |          | L            |              |          | L        |          | L  |